DAS L	Location	Operation1	Operation2	Operation3	Description1	Description2	Description3	Input	Unit	Units/acre
-68 N	Nursery	Field preparation	Irrigation	Flood	· ·		· ·	Labor	Man-d	1.00
	Nursery	Field preparation	Ploughing					Tractor with plough	Tractor-op.	1.00
	Nursery	Field preparation	Rotovating					Tractor with rotovator	Tractor-op.	1.00
	Nursery	Bed preparation	Bed making	90-cm bed & 45-cm furrow	200 m2 area			Tractor with bedmaker	Tractor-op.	1.00
-52 N	Nursery	Bed preparation	Printing		Rows across beds at 5-cm distance			Tractor with printer	Tractor-op.	1.00
-52 N	Nursery Nursery	Bed preparation	Irrigation		If required flood beds			Labor	Man-d	1.00
	Nursery	Sowing						Seed	kg	2.00
	Nursery	Sowing			Sow in printed rows			Labor	Man-d	10.00
	Nursery	Cultivation	Organic manuring		· ·			Vermicompost	mt	1.20
	Nursery	Cultivation	Organic manuring		Cover seed lines			Labor	Man-d	1.00
-48 N	Nursery	Cultivation	Irrigation		If required flood beds			Labor	Man-d	1.00
-41 N	Nursery	Cultivation	Irrigation		If required flood beds		NEED-BASED	Labor	Man-d	1.00
-34 N	Nursery	Cultivation	Plant protection	Fungicide	Concentration: 0.20%, H.I.: 7 days		NEED-BASED	Abic M-45 75% EC (Mancozeb)	kg	0.40
	Nursery	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
	Nursery	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	0.50
-34 N	Nursery	Cultivation	Irrigation		If required flood beds		NEED-BASED	Labor	Man-d	1.00
	Nursery	Cultivation	Fertilization	Foliar application	Dissolve in water			DAP	kg	0.24
	Nursery	Cultivation	Fertilization	Foliar application	Concentration: 0.10%			Fetrilon-Combi-2	kg	0.20
	Nursery	Cultivation	Fertilization					Water	ltr	400.00
	Nursery	Cultivation	Fertilization					Labor	Man-d	0.50
	Nursery	Cultivation	Irrigation		If required flood beds		NEED-BASED	Labor	Man-d	1.00
	Nursery	Cultivation	Plant protection	Fungicide	Concentration: 0.20%, H.I.: 7 days		NEED-BASED	Abic M-45 75% EC (Mancozeb)	kg	0.40
	Nursery	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
	Nursery	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	0.50
	Nursery	Cultivation	Irrigation		If required flood beds		NEED-BASED	Labor	Man-d	1.00
	Nursery	Cultivation	Irrigation		If required flood beds		NEED-BASED	Labor	Man-d	1.00
	Nursery	Cultivation	Fertilization	Foliar application	Dissolve in water		NEED-BASED	DAP	kg	0.24
	Nursery	Cultivation	Fertilization	Foliar application	Concentration: 0.10%			Fetrilon-Combi-2	kg	0.20
	Nursery	Cultivation	Fertilization				NEED-BASED	Water	ltr	200.00
	Nursery	Cultivation	Fertilization				NEED-BASED	Labor	Man-d	0.50
	Nursery	Cultivation	Irrigation		If required flood beds			Labor	Man-d	1.00
	Nursery	Transplanting			Uprooting, bundling and transporting to field			Labor	Man-d	3.00
	Field	Field preparation	Organic manuring	Manure application			ONLY ONCE PER YEAR	Vermicompost	mt	1.20
-4 F	Field	Field preparation	Organic manuring				ONLY ONCE PER YEAR	Labor	Man-d	1.00
-4 F	Field	Field preparation	Ploughing	D. I.C. CT.				Tractor with plough	Tractor-op.	2.00
-4 F	Field	Field preparation	Fertilization	Basal fertilizer Basal fertilizer	20-00-00 N-P-K 00-40-00 N-P-K			Calcium-Nitrate (CaNO3)	kg	130.00 220.00
-4 F		Field preparation Field preparation	Fertilization Fertilization	Basal fertilizer	00-00-20 N-P-K			Single-Superphosphate SOP (K2SO4)	kg	40.00
-4 F		Field preparation	Fertilization	Basal fertilizer	00-00-20 N-F-K			Zn-Sulphate	kg kg	20.00
-4 F		Field preparation	Fertilization	Dasarierunzer				Labor	Man-d	20.00
-4 F		Field preparation	Rotovating					Tractor with rotovator	Tractor-op.	1.00
-4 F		Bed preparation	Bed making	45-cm bed & 45-cm furrow				Tractor with bedmaker (+planker)	Tractor-op.	1.00
-4 F		Bed preparation	Bed making					Labor	Man-d	1.00
-4 F		Cultivation	Irrigation	Furrow						
0 F	Field	Transplanting						Labor	Man-d	1.00
	Field				15 cm from edge, 10-cm interrow, 10-cm interplant dis	tance 180.000 plants/A				1.00
0 F		Cultivation	45-cm bed & 45-cm furrow	4 rows/bed Furrow	15 cm from edge, 10-cm interrow, 10-cm interplant dis	tance 180,000 plants/A		Labor Labor Labor	Man-d	1.00 8.00
0 F		Cultivation Cultivation	45-cm bed & 45-cm furrow Irrigation	4 rows/bed				Labor Labor	Man-d Man-d	1.00 8.00 1.00
		Cultivation Cultivation Cultivation	45-cm bed & 45-cm furrow Irrigation Herbicide application	4 rows/bed	15 cm from edge, 10-cm interrow, 10-cm interplant dis Concentration: 0.50%	tance 180,000 plants/A within 24 h of transplanting		Labor	Man-d	1.00 8.00
0 F	Field	Cultivation	45-cm bed & 45-cm furrow Irrigation	4 rows/bed				Labor Labor Stomp 30% EC (Pendimethalin)	Man-d Man-d	1.00 8.00 1.00 1.00
0 F 14 F	Field Field	Cultivation Cultivation	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application	4 rows/bed			NEED-BASED	Labor Labor Stomp 30% EC (Pendimethalin) Water	Man-d Man-d Itr Itr	1.00 8.00 1.00 1.00 200.00
÷.	Field Field Field	Cultivation Cultivation Cultivation	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application Herbicide application	4 rows/bed Furrow Furrow	Concentration: 0.50%		NEED-BASED PREVENTIVE	Labor Labor Stomp 30% EC (Pendimethalin) Water Labor	Man-d Man-d Itr Itr Man-d Man-d	1.00 8.00 1.00 1.00 200.00 0.50
14 F 21 F 21 F	Field Field Field Field Field	Cultivation Cultivation Cultivation Cultivation	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application Irrigation	4 rows/bed Furrow			PREVENTIVE PREVENTIVE	Labor Labor Stomp 30% EC (Pendimethalin) Water Labor Labor	Man-d Man-d Itr Itr Man-d Man-d kg Itr	1.00 8.00 1.00 200.00 0.50 1.00 0.40 200.00
14 F 21 F	Field Field Field Field Field	Cultivation Cultivation Cultivation Cultivation Cultivation	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application Herbicide application Irrigation Plant protection	4 rows/bed Furrow Furrow	Concentration: 0.50%		PREVENTIVE	Labor Labor Stomp 30% EC (Pendimethalin) Water Labor Labor Abic M-45 75% EC (Mancozeb)	Man-d Man-d Itr Itr Man-d Man-d	1.00 8.00 1.00 200.00 0.50 1.00
14 F 21 F 21 F	Field Field Field Field Field Field	Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application Irrigation Plant protection Plant protection	4 rows/bed Furrow Furrow	Concentration: 0.50%		PREVENTIVE PREVENTIVE	Labor Labor Stomp 30% EC (Pendimethalin) Water Labor Labor Abic M-45 75% EC (Mancozeb) Water	Man-d Man-d Itr Itr Man-d Man-d kg Itr	1.00 8.00 1.00 200.00 0.50 1.00 0.40 200.00
14 F 21 F 21 F 21 F 21 F 30 F 30 F	Field Field Field Field Field Field Field Field	Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application Irrigation Plant protection Plant protection Plant protection	4 rows/bed Furrow Furrow Fungicide	Concentration: 0.50% Concentration: 0.20%, H.I.: 7 days		PREVENTIVE PREVENTIVE	Labor Labor Stomp 30% EC (Pendimethalin) Water Labor Labor Abic M-45 75% EC (Mancozeb) Water Labor	Man-d Man-d Itr Itr Man-d kg Itr Man-d kg kg kg kg	1.00 8.00 1.00 200.00 0.50 1.00 0.40 200.00 0.50 190.00 60.00
14 F 21 F 21 F 21 F 21 F 30 F 30 F 30 F	Field Field Field Field Field Field Field Field	Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application Irrigation Plant protection Plant protection Plant protection Fertilization Fertilization Fertilization	4 rows/bed Furrow Furrow Fungicide Side dressing	Concentration: 0.50% Concentration: 0.20%, H.I.: 7 days Concentration: 0.20%, H.I.: 7 days 30-00-00 N-P-K 00-00-30 N-P-K		PREVENTIVE PREVENTIVE	Labor Labor Stomp 30% EC (Pendimethalin) Water Labor Abic M-45 75% EC (Mancozeb) Water Labor Calcium-Nitrate (CaNO3) SOP (K2SO4) Labor	Man-d Man-d Itr Man-d Man-d kg Itr Man-d kg	1.00           8.00           1.00           200.00           0.50           1.00           0.40           200.00           0.50           1.00           0.40           200.00           0.50           1.00           0.50           1.00           60.00           1.00
14 F 21 F 21 F 21 F 21 F 30 F 30 F 30 F 30 F	Field Field Field Field Field Field Field Field Field	Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application Irrigation Plant protection Plant protection Plant protection Plant protection Fertilization Fertilization Fertilization Fertilization	4 rows/bed Furrow Furrow Fungicide Side dressing Side dressing Foliar application	Concentration: 0.50% Concentration: 0.20%, H.I.: 7 days 30-00-00 N-P-K 00-00-30 N-P-K Concentration: 0.10%		PREVENTIVE PREVENTIVE PREVENTIVE	Labor Labor Stomp 30% EC (Pendimethalin) Water Labor Abic M-45 75% EC (Mancozeb) Water Labor Calcium-Nitrate (CaNO3) SOP (K2SO4) Labor Fetrilon-Combi-2	Man-d Man-d Itr Itr Man-d kg Itr Man-d kg kg kg kg	1.00 8.00 1.00 200.00 0.50 1.00 0.40 200.00 0.50 190.00 60.00 1.00 0.20
14 F 21 F 21 F 21 F 21 F 30 F 30 F 30 F 30 F 30 F 30 F	Field	Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application Irrigation Plant protection Plant protection Plant protection Pertilization Fertilization Fertilization Fertilization Plant protection Plant protection Plant protection	4 rows/bed Furrow Furrow Fungicide Side dressing Side dressing	Concentration: 0.50% Concentration: 0.20%, H.I.: 7 days Concentration: 0.20%, H.I.: 7 days 30-00-00 N-P-K 00-00-30 N-P-K		PREVENTIVE PREVENTIVE PREVENTIVE PREVENTIVE	Labor Labor Stomp 30% EC (Pendimethalin) Water Labor Labor Abic M-45 75% EC (Mancozeb) Water Labor Calcium-Nitrate (CaNO3) SOP (K2SO4) Labor Fetrilon-Combi-2 Rogor 30% EC (Dimethoate)	Man-d Man-d Itr Itr Man-d kg Itr Man-d kg kg Man-d Man-d	1.00           8.00           1.00           200.00           0.50           1.00           0.40           200.00           0.50           1.00           0.40           200.00           0.50           0.50           0.40           0.50           1.90.00           60.00           1.00           0.20           0.40
14 F 21 F 21 F 21 F 30 F 30 F 30 F 30 F 30 F 30 F 30 F	Field	Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application Irrigation Plant protection Plant protection Plant protection Fertilization Fertilization Fertilization Fertilization Plant protection Plant protection Plant protection Plant protection	4 rows/bed Furrow Furrow Fungicide Side dressing Side dressing Foliar application	Concentration: 0.50% Concentration: 0.20%, H.I.: 7 days 30-00-00 N-P-K 00-00-30 N-P-K Concentration: 0.10%		PREVENTIVE PREVENTIVE PREVENTIVE PREVENTIVE PREVENTIVE PREVENTIVE	Labor Labor Stomp 30% EC (Pendimethalin) Water Labor Abic M-45 75% EC (Mancozeb) Water Labor Calcium-Nitrate (CaNO3) SOP (K2SO4) Labor Fetrilon-Combi-2 Rogor 30% EC (Dimethoate) Water	Man-d Man-d Itr Man-d kg Itr Man-d kg kg Man-d kg Itr Itr Itr	1.00 8.00 1.00 0.50 1.00 0.50 0.50 1.00 0.50 190.00 60.00 1.00 0.20 0.20 0.40 0.20
14 F 21 F 21 F 21 F 30 F 30 F 30 F 30 F 30 F 30 F 30 F 30	Field	Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application Irrigation Plant protection Plant protection Plant protection Fertilization Fertilization Fertilization Plant protection Plant protection Plant protection Plant protection Plant protection Plant protection	4 rows/bed Furrow Furrow Fungicide Side dressing Side dressing Foliar application Insecticide	Concentration: 0.50% Concentration: 0.20%, H.I.: 7 days 30-00-00 N-P-K 00-00-30 N-P-K Concentration: 0.10%		PREVENTIVE PREVENTIVE PREVENTIVE PREVENTIVE PREVENTIVE PREVENTIVE	Labor Labor Stomp 30% EC (Pendimethalin) Water Labor Abic M-45 75% EC (Mancozeb) Water Labor Calcium-Nitrate (CaNO3) SOP (K2SO4) Labor Fetrilon-Combi-2 Rogor 30% EC (Dimethoate) Water Labor	Man-d Man-d Itr Itr Man-d Kg Itr Man-d Kg Kg Man-d Kg Itr Itr Itr Man-d Man-d	1.00 8.00 1.00 200.00 0.50 1.00 0.40 200.00 0.50 190.00 60.00 0.20 0.20 0.40 200.00 0.55
14 F 21 F 21 F 21 F 30 F 30 F 30 F 30 F 30 F 30 F 30 F 30	Field	Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation Cultivation	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application Irrigation Plant protection Plant protection Plant protection Fertilization Fertilization Fertilization Plant protection Plant protection Plant protection Plant protection Plant protection Plant protection Plant protection Plant protection Irrigation	4 rows/bed Furrow Furrow Fungicide Side dressing Side dressing Foliar application Insecticide Furrow	Concentration: 0.50% Concentration: 0.20%, H.I.: 7 days 30-00-00 N-P-K 00-00-30 N-P-K Concentration: 0.10%		PREVENTIVE PREVENTIVE PREVENTIVE PREVENTIVE PREVENTIVE PREVENTIVE NEED-BASED	Labor Labor Stomp 30% EC (Pendimethalin) Water Labor Labor Abic M-45 75% EC (Mancozeb) Water Labor Calcium-Nitrate (CaNO3) SOP (K2SO4) Labor Fetrilon-Combi-2 Rogor 30% EC (Dimethoate) Water Labor Labor	Man-d Man-d Itr Itr Man-d Kg Itr Man-d Kg Kg Kg Itr Kan-d Itr Itr Itr Man-d Man-d Man-d	1.00           8.00           1.00           200.00           0.50           1.00           0.40           200.00           0.50           1.00           0.40           200.00           0.50           1.00           0.40           200.00           0.20           0.40           200.00           0.50           1.00
14 F 21 F 21 F 21 F 30 F 30 F 30 F 30 F 30 F 30 F 30 F 30	Field	Cultivation Cultiv	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application Irrigation Plant protection Plant protection Plant protection Fertilization Fertilization Fertilization Plant protection Plant protection Plant protection Plant protection Plant protection Irrigation Irrigation	4 rows/bed Furrow Furrow Fungicide Side dressing Side dressing Foliar application Insecticide	Concentration: 0.50% Concentration: 0.20%, H.I.: 7 days 30-00-00 N-P-K 00-00-30 N-P-K Concentration: 0.10%		PREVENTIVE PREVENTIVE PREVENTIVE PREVENTIVE PREVENTIVE PREVENTIVE PREVENTIVE NEED-BASED NEED-BASED	Labor Labor Stomp 30% EC (Pendimethalin) Water Labor Abic M-45 75% EC (Mancozeb) Water Labor Calcium-Nitrate (CaNO3) SOP (K2SO4) Labor Fetrilon-Combi-2 Rogor 30% EC (Dimethoate) Water Labor Labor Labor	Man-d Man-d Itr Itr Man-d kg Itr Man-d kg Man-d Itr Itr Man-d Man-d Man-d Man-d	1.00 8.00 1.00 200.00 0.50 1.00 0.40 200.00 0.50 190.00 0.00 0.00 0.20 0.40 0.20 0.40 200.00 0.20 0.40 200.00 0.50 1.00 200.00 0.50 1.00 200.00 1.00 1.00 1.00 0.50 1.00 0.50 0.50
14 F 21 F 21 F 21 F 30 F 30 F 30 F 30 F 30 F 30 F 30 F 30	Field Field Field Field Field Field Field Field Field Field Field Field Field Field Field Field Field Field	Cultivation Cultiv	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application Irrigation Plant protection Plant protection Plant protection Fertilization Fertilization Fertilization Plant protection Plant protection Plant protection Plant protection Plant protection Plant protection Plant protection Irrigation Irrigation	4 rows/bed Furrow Furrow Fungicide Side dressing Side dressing Foliar application Insecticide Furrow Furrow	Concentration: 0.50% Concentration: 0.20%, H.I.: 7 days Concentration: 0.20%, H.I.: 7 days Concentration: 0.10% Concentration: 0.10% Concentration: 0.20%, H.I.: 7 days		PREVENTIVE PREVENTIVE PREVENTIVE PREVENTIVE PREVENTIVE PREVENTIVE PREVENTIVE NEED-BASED NEED-BASED NEED-BASED	Labor Labor Stomp 30% EC (Pendimethalin) Water Labor Abic M-45 75% EC (Mancozeb) Water Labor Calcium-Nitrate (CaNO3) SOP (K2SO4) Labor Fetrilon-Combi-2 Rogor 30% EC (Dimethoate) Water Labor Labor Labor Labor Labor Labor	Man-d Man-d Itr Itr Man-d kg Itr Man-d kg Man-d kg Itr Itr Itr Man-d Man-d Man-d Man-d Man-d	1.00 8.00 1.00 200.00 0.50 1.00 0.50 190.00 6.000 1.00 0.20 0.20 0.40 200.00 0.50 1.00 0.50 0.100 0.50 0.50 0.5
14 F 21 F 21 F 21 F 21 F 30 F 30 F 30 F 30 F 30 F 30 F 30 F 30	Field Field Field Field Field Field Field Field Field Field Field Field Field Field Field Field Field Field	Cultivation Cultiv	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application Plant protection Plant protection Plant protection Plant protection Fertilization Fertilization Fertilization Plant protection Plant protection Plant protection Plant protection Irrigation Urrigation Weeding Plant protection	4 rows/bed Furrow Furrow Fungicide Side dressing Side dressing Foliar application Insecticide Furrow	Concentration: 0.50% Concentration: 0.20%, H.I.: 7 days 30-00-00 N-P-K 00-00-30 N-P-K Concentration: 0.10%		PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED	Labor Labor Stomp 30% EC (Pendimethalin) Water Labor Labor Abic M-45 75% EC (Mancozeb) Water Labor Calcium-Nitrate (CaNO3) SOP (K2SO4) Labor Fetrilon-Combi-2 Rogor 30% EC (Dimethoate) Water Labor Labor Labor Labor Labor Labor Labor Labor	Man-d Man-d Itr Man-d Kg Itr Man-d Kg kg kg Itr Kg Itr Itr Man-d Man-d Man-d Man-d Man-d Kg	1.00 8.00 1.00 200.00 0.50 1.00 200.00 0.40 200.00 60.00 1.00 0.40 200.00 0.50 1.00 0.40 200.00 0.50 1.00 0.50 0.40 20.00 0.50 0.00 0.50 0.00 0.00 0.00 0.
14 F 21 F 21 F 21 F 30 F 30 F 30 F 30 F 30 F 30 F 30 F 30	Field	Cultivation	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application Irrigation Plant protection Plant protection Plant protection Fertilization Fertilization Fertilization Plant protection Plant protection Plant protection Plant protection Irrigation Irrigation Plant protection Plant protection	4 rows/bed Furrow Furrow Fungicide Side dressing Side dressing Foliar application Insecticide Furrow Furrow	Concentration: 0.50% Concentration: 0.20%, H.I.: 7 days Concentration: 0.20%, H.I.: 7 days Concentration: 0.10% Concentration: 0.10% Concentration: 0.20%, H.I.: 7 days		PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED	Labor Labor Stomp 30% EC (Pendimethalin) Water Labor Abic M-45 75% EC (Mancozeb) Water Labor Calcium-Nitrate (CaNO3) SOP (K2SO4) Labor SOP (K2SO4) Labor Fetrilon-Combi-2 Rogor 30% EC (Dimethoate) Water Labor Labor Labor Labor Labor Labor Labor Labor Mater	Man-d Man-d Itr Man-d kg Itr Man-d kg Man-d Itr Itr Man-d Man-d Man-d Man-d Man-d Itr	1.00           8.00           1.00           1.00           200.00           0.50           1.00           0.50           1.00           0.40           200.00           0.50           1.00           0.40           0.00           0.50           1.00           0.20           0.40           0.000           0.50           1.00           0.50           1.00           0.50           1.00           0.40           0.40           0.40           0.40
14 F 21 F 21 F 21 F 30 F 30 F 30 F 30 F 30 F 30 F 30 F 45 F 45 F 45 F 45 F	Field Field	Cultivation Cultiv	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application Irrigation Plant protection Plant protection Plant protection Plant protection Fertilization Fertilization Fertilization Plant protection Plant protection Plant protection Plant protection Irrigation Weeding Plant protection Plant protection	4 rows/bed Furrow Furrow Fungicide Side dressing Side dressing Foliar application Insecticide Furrow Furrow Furrow	Concentration: 0.50% Concentration: 0.20%, H.I.: 7 days Concentration: 0.10% Concentration: 0.10% Concentration: 0.20%, H.I.: 7 days Concentration: 0.20%, H.I.: 7 days		PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED	Labor Labor Stomp 30% EC (Pendimethalin) Water Labor Labor Calcium-Nitrate (CaNO3) SOP (K2SO4) Labor SOP (K2SO4) Labor Fetrilon-Combi-2 Rogor 30% EC (Dimethoate) Water Labor	Man-d Man-d Itr Itr Man-d Kg Itr Man-d Kg Kg Man-d Kg Itr Itr Man-d Man-d Man-d Man-d Man-d Man-d Man-d Man-d Man-d Man-d Man-d Man-d	1.00           8.00           1.00           1.00           200.00           0.50           1.00           0.40           200.00           0.50           1.00           0.40           200.00           0.50           1.90.00           6.00           0.20           0.40           200.00           0.50           1.00           0.50           1.00           8.00           0.40           200.00           0.50
14 F 21 F 21 F 30 F	Field	Cultivation	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application Irrigation Plant protection Plant protection Plant protection Fertilization Fertilization Fertilization Plant protection Plant protection Plant protection Irrigation Irrigation Weeding Plant protection Plant protection Fertilization	4 rows/bed Furrow Furrow Fungicide Side dressing Side dressing Foliar application Insecticide Furrow Furrow Furrow Furrow Side dressing	Concentration: 0.50% Concentration: 0.20%, H.I.: 7 days 00-00-00 N-P-K 00-00-30 N-P-K Concentration: 0.10% Concentration: 0.20%, H.I.: 7 days Concentration: 0.20%, H.I.: 7 days		PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED	Labor Labor Stomp 30% EC (Pendimethalin) Water Labor Labor Abic M-45 75% EC (Mancozeb) Water Labor Calcium-Nitrate (CaNO3) SOP (K2SO4) Labor Fetrilon-Combi-2 Rogor 30% EC (Dimethoate) Water Labor Labor Labor Labor Labor Labor Labor Labor Calcium-Nitrate (CaNO3)	Man-d Man-d Itr Man-d Man-d Kg Itr Man-d Kg Itr Itr Man-d Man-d Man-d Man-d Kg Itr Man-d Kg Kg Kg Kg Kg Kg Kg Kg Kg Kg Ka Ka Ka Ka Ka Ka Ka Ka Ka Ka Ka Ka Ka	1.00 8.00 1.00 2.00.00 0.50 1.00 0.40 200.00 60.00 1.00 0.60 1.00 0.40 200.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 1.00 0.50 0.5
14         F           21         F           21         F           30         F           45         F           45         F           45         F           45         F           45         F           45         F           60         F	Field	Cultivation	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application Irrigation Plant protection Plant protection Plant protection Fertilization Fertilization Fertilization Plant protection Plant protection Plant protection Plant protection Irrigation Ilrigation Ilrigation Plant protection Plant protection Fertilization Fertilization	4 rows/bed Furrow Furrow Fungicide Side dressing Side dressing Foliar application Insecticide Furrow Furrow Furrow	Concentration: 0.50% Concentration: 0.20%, H.I.: 7 days Concentration: 0.10% Concentration: 0.10% Concentration: 0.20%, H.I.: 7 days Concentration: 0.20%, H.I.: 7 days		PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED	Labor Labor Stomp 30% EC (Pendimethalin) Water Labor Labor Abic M-45 75% EC (Mancozeb) Water Labor Calcium-Nitrate (CaNO3) SOP (K2SO4) Labor Fetrilon-Combi-2 Rogor 30% EC (Dimethoate) Water Labor Labor Labor Labor Abic M-45 75% EC (Mancozeb) Water Labor Labor SoP (K2SO4)	Man-d Man-d Itr Man-d kg Itr Man-d kg Man-d kg Itr Itr Itr Man-d Man-d Man-d Man-d Man-d Kg Itr Man-d Kg Kg Kg Kg Kg Kg Kg Kg Kg Kg Kg Kg Kg	1.00           8.00           1.00           1.00           200.00           0.50           1.00           0.50           1.00           0.40           200.00           0.50           1.00           0.40           0.00           0.50           1.00           0.40           0.00           0.40           0.000           0.50           1.00           0.40           0.50           1.00           0.40           0.50           1.00           0.40           0.50           1.00           0.40           0.50           1.00           0.40           0.50           0.50           1.90.00           0.50           1.90.00           0.50
14         F           21         F           21         F           30         F           45         F           45         F           45         F           45         F           60         F           60         F	Field           Field	Cultivation	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application Irrigation Plant protection Plant protection Plant protection Plant protection Fertilization Fertilization Fertilization Plant protection Plant protection Fertilization Fertilization	4 rows/bed Furrow Furrow Fungicide Side dressing Side dressing Foliar application Insecticide Furrow Furrow Furgicide Side dressing Side dressing Side dressing	Concentration: 0.50% Concentration: 0.20%, H.I.: 7 days Concentration: 0.10% Concentration: 0.10% Concentration: 0.20%, H.I.: 7 days Concentration: 0.20%, H		PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED	Labor Labor Labor Stomp 30% EC (Pendimethalin) Water Labor Labor Calcium-Nitrate (CaNO3) SOP (K2SO4) Labor Fetrilon-Combi-2 Rogor 30% EC (Dimethoate) Water Labor Labor Labor Labor Labor Labor Labor Labor Labor Calcium-Nitrate (CaNO3) SOP (K2SO4) Labor	Man-d Man-d Itr Itr Man-d kg Itr Man-d kg Man-d kg Itr Itr Man-d Man-d Man-d Man-d Man-d Kg Itr Man-d Man-d Man-d Man-d Kg Kg Kg Kg Kg Kg Kg Kg Kg Kg Kg Kg Kg	1.00           8.00           1.00           1.00           200.00           0.50           1.00           0.40           200.00           0.50           1.00           0.40           200.00           0.50           190.00           60.00           0.20           0.40           200.00           0.50           1.00           8.00           0.50           1.00           8.00           0.50           1.00           0.50           1.00
14         F           21         F           21         F           30         F           45         F           45         F           45         F           45         F           45         F           60         F           60         F           60         F           60         F           60         F	Field	Cultivation	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application Plant protection Plant protection Plant protection Plant protection Fertilization Fertilization Plant protection Plant protection Plant protection Plant protection Irrigation Irrigation Weeding Plant protection Plant protection Plant protection Plant protection Plant protection Plant protection Plant protection Plant protection Fertilization Fertilization Fertilization Fertilization Fertilization Fertilization Fertilization	4 rows/bed Furrow Furrow Fungicide Side dressing Side dressing Foliar application Insecticide Furrow Furrow Furrow Fungicide Side dressing Side dressing Side dressing Side dressing Side dressing Side dressing	Concentration: 0.50% Concentration: 0.20%, H.I.: 7 days Concentration: 0.20%, H.I.: 7 days Concentration: 0.10% Concentration: 0.20%, H.I.: 7 days		PREVENTIVE PREVENTIVE PREVENTIVE PREVENTIVE PREVENTIVE PREVENTIVE NEED-BASED	Labor Labor Stomp 30% EC (Pendimethalin) Water Labor Labor Abic M-45 75% EC (Mancozeb) Water Labor Calcium-Nitrate (CaNO3) SOP (K2SO4) Labor Fetrilon-Combi-2 Rogor 30% EC (Dimethoate) Water Labor Labor Labor Labor Labor Calcium-Nitrate (CaNO3) SOP (K2SO4) Labor Eabor Calcium-Nitrate (CaNO3) SOP (K2SO4) Labor Fetrilon-Combi-2	Man-d Man-d Itr Man-d Man-d Kg Itr Man-d Kg Kg Itr Itr Man-d Man-d Man-d Man-d Kg Itr Man-d Kg Kg Kg Kg Kg Kg Kg Kg Kg Kg	1.00           8.00           1.00           1.00           200.00           0.50           1.00           0.50           1.00           0.50           1.00           0.50           1.00           0.50           1.00           0.50           1.00           0.600           1.00           0.440           200.00           0.50           1.00           0.40           200.00           0.50           1.00           0.40           200.00           0.50           1.00           0.40           200.00           0.50           1.00           0.40           200.00           0.50           1.00           0.50           1.00           0.00           1.00           0.00           0.00
14 F 21 F 21 F 30 F 30 F 30 F 30 F 30 F 30 F 30 F 30	Field	Cultivation	45-cm bed & 45-cm furrow Irrigation Herbicide application Herbicide application Irrigation Plant protection Plant protection Plant protection Plant protection Fertilization Fertilization Fertilization Plant protection Plant protection Fertilization Fertilization	4 rows/bed Furrow Furrow Fungicide Side dressing Side dressing Foliar application Insecticide Furrow Furrow Furgicide Side dressing Side dressing Side dressing	Concentration: 0.50% Concentration: 0.20%, H.I.: 7 days Concentration: 0.10% Concentration: 0.10% Concentration: 0.20%, H.I.: 7 days Concentration: 0.20%, H		PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           PREVENTIVE           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED           NEED-BASED	Labor Labor Labor Stomp 30% EC (Pendimethalin) Water Labor Labor Calcium-Nitrate (CaNO3) SOP (K2SO4) Labor Fetrilon-Combi-2 Rogor 30% EC (Dimethoate) Water Labor Labor Labor Labor Labor Labor Labor Labor Labor Calcium-Nitrate (CaNO3) SOP (K2SO4) Labor	Man-d Man-d Itr Itr Man-d kg Itr Man-d kg Man-d kg Itr Itr Man-d Man-d Man-d Man-d Man-d Kg Itr Man-d Man-d Man-d Man-d Kg Kg Kg Kg Kg Kg Kg Kg Kg Kg Kg Kg Kg	1.00           8.00           1.00           1.00           200.00           0.50           1.00           0.40           200.00           0.50           1.00           0.40           200.00           0.50           190.00           6.00           0.20           0.40           200.00           0.50           1.00           0.50           1.00           8.00           0.50           1.00           8.00           0.50           1.00           8.00           0.50           1.00           0.50           1.00

DAS Location	Operation1	Operation2	Operation3	Description1	Description2	Description3	Input	Unit	Units/acre
60 Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	0.50
60 Field	Cultivation	Irrigation	Furrow			NEED-BASED	Labor	Man-d	1.00
75 Field	Cultivation	Irrigation	Furrow			NEED-BASED	Labor	Man-d	0.50
75 Field	Cultivation	Plant protection	Fungicide	Concentration: 0.20%, H.I.: 7 days		NEED-BASED	Abic M-45 75% EC (Mancozeb)	kg	0.40
75 Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
75 Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	0.50
90 Field	Cultivation	Irrigation	Furrow			NEED-BASED	Labor	Man-d	1.00
90 Field	Cultivation	Fertilization	Foliar application	Concentration: 0.10%			Fetrilon-Combi-2	kg	0.20
90 Field	Cultivation	Plant protection	Insecticide	Concentration: 0.20%, H.I.: 7 days		NEED-BASED	Rogor 30% EC (Dimethoate)	ltr	0.40
90 Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
90 Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	0.50
96 Field	Cultivation	Irrigation	Furrow	last irrigation 15-20 days before harvest		NEED-BASED	Labor	Man-d	1.00
120 Field	Harvest	Pulling and curing		when >50% neckfall	in the evening	curing 7 days shaded until n	ecks are dry Labor	Man-d	18.00
127 Field	Harvest	Cutting tops		Cut dry necks 2.5 cm above bulb			Labor	Man-d	1.00